

## Special Issue

# Grid Integration of Electric Vehicles: Current Status and Future Prospects

### Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Advanced predictive algorithms for EV charging load forecasting;
- Charging facility planning;
- Vehicle-to-grid (V2G) technologies and systems;
- Smart charging strategies and algorithms;
- Energy management systems for EV fleets;
- Market mechanisms and incentives for EV smart charging;
- Impact on electricity pricing and demand response;
- Lifecycle assessment of EVs and grid integration;
- Greenhouse gas emissions and carbon footprint analysis;
- Sustainable energy sources for EV charging;
- User behavior and acceptance of EVs and V2G technology;
- Societal impacts of widespread EV adoption;
- Real-world implementations of EV grid integration;
- Lessons learned from pilot projects and large-scale deployments;
- Technological advancements and innovation in EV and grid technologies;
- Long-term scenarios for EV market penetration and grid adaptation;
- Vision for a fully integrated and sustainable EV ecosystem.

We look forward to receiving your contributions.

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### Guest Editors

Prof. Dr. Yunfei Mu

Dr. Xiaohong Dong

Dr. Xiaolong Jin

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### Deadline for manuscript submissions

31 July 2025



## Electronics

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## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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### Editor-in-Chief

Prof. Dr. Flavio Canavero

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